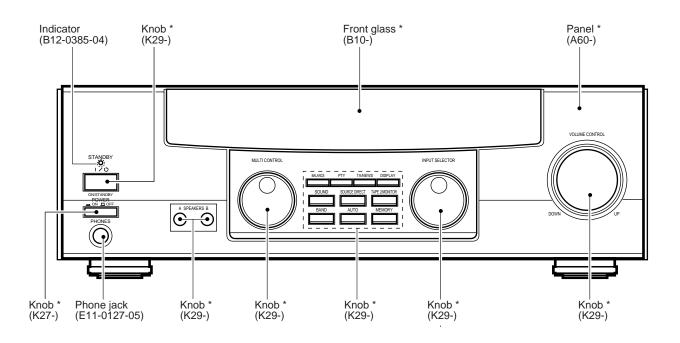
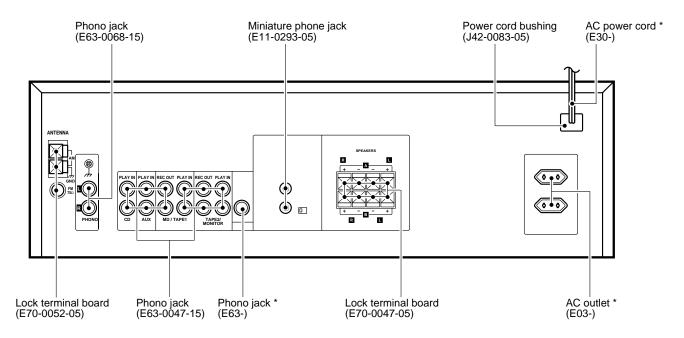
AUDIO RECEIVER

AR-404/KRF-A4030/ A4030E/A4030-S SERVICE MANUAL

KENWOOD

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^{*} Refer to parts list on page 21.

CONTENTS / ACCESSORIES / CAUTIONS

Contents

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Accessories

FM indoor antenna (1) (T90-0836-05)



AM loop antenna (1) (T90-0852-05)



Batteries (R06/AA) (2)

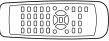


AC plug adaptor (1) (E03-0115-05)



*Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

Remote control unit (1) (A70-1266-05): RC-R0709......KPMX (A70-1267-05): RC-R0708......E1E2E3



Cautions

Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

For U.S.A. and Canada

Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

Except for U.S.A. and Canada

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press the POWER key.

 Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

CIRCUIT DESCRIPTION

1. BACK UP DATA AND INITIAL STATE

1-1 BACK UP

(1) AMF

| 1) AMP | |
|-------------------|---------|
| • POWER | STANDBY |
| • INPUT SELECTOR | TUNER |
| • BALANCE | CENTER |
| • SPEAKER A RELAY | ON |
| • SPEAKER B RELAY | OFF |
| VOLUME LEVEL | 66dB |
| BASS LEVEL | 0dB |
| TREBLE LEVEL | 0dB |
| • INPUT LEVEL | 0dB |
| SOURCE DIRECT | OFF |
| TAPE2/MONITOR | OFF |

(2) TUNER

| PRESET CHANNEL | "" |
|------------------------------------|-------------------|
| • FREQUENCY | LOWER LIMIT VALUE |
| K1 | FM:87.50MHz |
| | AM:530kHz |
| E1/E3 | FM:87.50MHz |
| | AM:531kHz |

AUTO/MANUALAUTO

• BANDFM

DISPLAY MODEFREQUENCY

• E ON THRUST RECEIVINGOFF MODE

• T1 VOLUMEOFF(-66dB)

1-2 INITIAL SETTING

The initial setting is performed when the AC power cord is plugged into the AC power wall out let while pressing the power (STANDBY) key.

2. DESTINATION LIST OF TUNER

| DESTINA- TION | TUNER TYPE | BAND | RECEIVING FREQUENCY RANGE | CHANNEL SPACE | IF | PLL REFERENCE FREQUENCY | DSW3 (D507) | DSW2 (D505) | DSW1 (D504) | DSW0 (D510) |
|------------------|---------------|----------|------------------------------------|------------------|---------------------|-------------------------------|----------------|----------------|----------------|----------------|
| K,P | K1(1700) | FM AM | 87.5MHz~108.0MHz 530kHz~1700kHz | 100kHz 10kHz | +10.7MHz +450kHz | 25kHz 10kHz | 0 | 0 | 0 | 0 |
| M,X | E1 | FM AM | 87.5MHz~108.0MHz 531kHz~1602kHz | 50kHz 9kHz | +10.7MHz +450kHz | 25kHz 9kHz | 0 | 0 | 1 | 1 |
| М | K2(1600) | FM AM | 87.5MHz~108.0MHz 530kHz~1610kHz | 100kHz 10kHz | +10.7MHz +450kHz | 25kHz 10kHz | 0 | 0 | 0 | 1 |
| E | E3 RDS | FM AM | 87.5MHz~108.0MHz 531kHz~1602kHz | 50kHz 9kHz | +10.7MHz +450kHz | 25kHz 9kHz | 0 | 1 | 0 | 1 |

DSW0~DSW3(DIODE SW) * 0: NONE DIODE,1:ADD DIODE

3. TEST MODE

3-1 SETTING

Turn the power ON while pressing the [BAND] key.

3-2 CANCELLATION

Unplug the AC power cord from an AC power wall outlet.

3-3 STARTING ACTIVE CONTENTS

- The power on state is entered whenever the power is trued on while pressing the [BAND] key.
- All functions are initialized and activated in the all lighting mode.
- All lighting mode is canceled when any main unit's keys are pressed. The normal display obtained when the selector is set to TUNER then appears.
- E2PROM check(Etype only).

Check the reading data and the writing data of the E2PROM after setting the test mode.

Display shows blank if the reading data and writing data are the same. Display shows "LW" if the different data will be written to E2PROM.

3-4 ACTIVE CONTENTS

- The mute control is not activated when the mode is switched.
- The test mode will be terminated by plugging it off the power source or by initializing it when all the settings will be initialized.

- During the test mode, it can be operated in a special manner that is deferent from an ordinary operation by using the keys on the remote control or the main body ,specifically as shown in the following table (3-5 CON-TENTS).
- Channel space will be no changed in the test mode.

3-5 CONTENTS

3-5-1 TUNER FUNCTION

WITH THE SELECTOR ON TUNER (E TYPE ONLY)

| OPERATION KEY | FUNCTION | FL DISPLAY | REMARKS |
|------------------|-------------------|--|---------------------------|
| PTY | S LEVEL RF ATT | (EX.) (1)(SLEVEL), (RF ATT)OFF (2)(SLEVEL), (RF ATT)ON (3)(NORMAL), (RF)ATT OFF | (1) (2) +-(3) CYCLE |
| DISPLAY | P.CALL UP | P.CALL FREQUENCY | - |
| TA/NEWS | PI CODE | PI 0000 | PI CODE ON/OFF |

3-5-2 AMP FUNCTION

WITH THE SELECTOR ON SOMETHING OTHER THAN TUNER

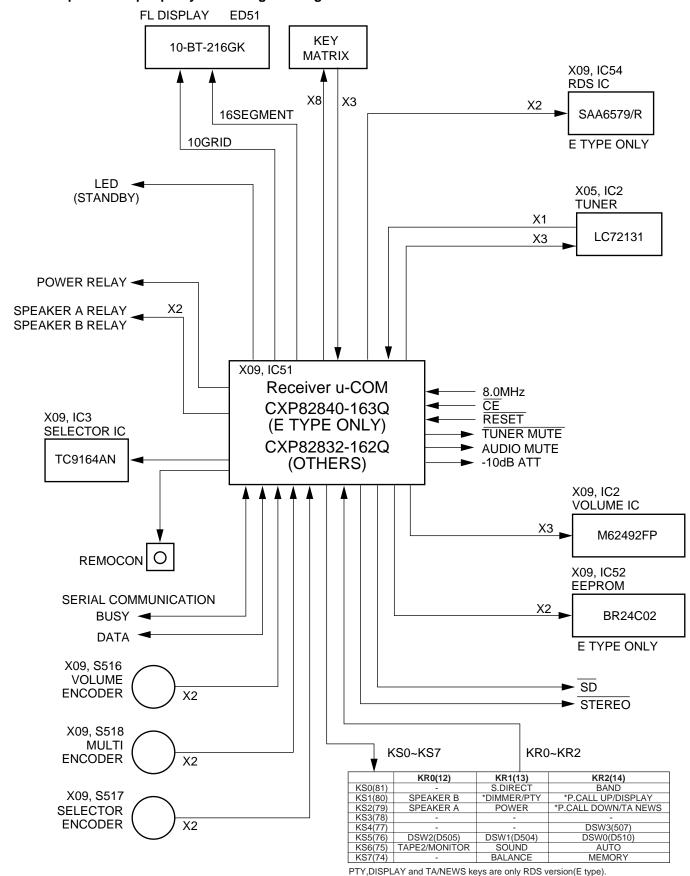
• One touch max,min setting for Audio level.

| 14574 | | SOU | ND KEY | |
|--------|------------|------------|--------|--|
| KEY | MASTER VR. | BASS TREBL | | |
| BAND | -89dB | 0dB | +10dB | |
| AUTO | 0dB | 0dB | +10dB | |
| MEMORY | -10dB | 0dB | +10dB | |

Bass and treble are selected while the sound key is pressed.

CIRCUIT DESCRIPTION

- 4. Microprocessor CXP82840-163Q, CXP82832-162Q (X09, IC51)
- 4-1 Microprocessor periphery block diagram diagram



CIRCUIT DESCRIPTION

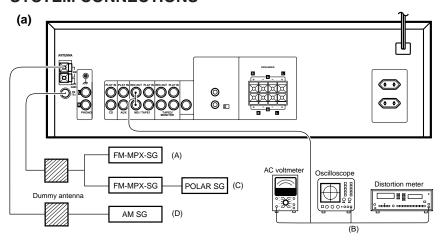
4.2 Microprocessor pin descriptions: X09,IC51

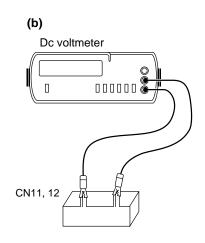
| | Din name | | , | Activo |
|---------|-----------------|----------|--|------------------|
| Pin No. | Pin name | 1/0 | Description | Active |
| 1,2 | G9,G10 NC | 0 | FL grid control (9,10). | |
| 3 | | - | u-Com +5V power supply. | |
| 4 | RDS,CK | ! | RDS IC clock input control. (E type only) | |
| 5 | RDS,DT | ! | RDS IC data input control. (E type only) | |
| 6 | NC VOLENIO A | ! | u-Com +5V power supply. | |
| 7 | VOL.ENC.A | ! | Volume encoder A (CW) signal. | |
| 8 | REMOCON | | Remote control signal input. | |
| 9 | VOL.ENC.B | I | Volume encoder B (CCW) signal. | |
| 10,11 | NC | - | Unused. | |
| 12~14 | KR0~KR2 | I | Key return (0~2). | |
| 15 | PROTECT | I | Protection detection signal input. | H: Protection ON |
| 16 | S.DATA | I/O | Serial communication data. | |
| 17 | S.BUSY | I/O | Serial communication busy. | |
| 18 | E2.DATA | I/O | E2 PROM data. | |
| 19 | E2.CLK | 0 | E2 PROM clock. | |
| 20 | SEL.ENC2 CW | - 1 | Selector encoder A(CW) input. | |
| 21 | SEL.ENC2 CCW2 | | Selector encoder B(CCW) input. | |
| 22 | MLT. ENC3 CW3 | 1 | Multi control encoder A(CW). | |
| 23 | MLT. ENC3 CCW3 | i | Multi control encoder B(CCW). | |
| 24 | 8/16 | i | Serial communication 8bit/16bit changeover. | |
| 25~27 | NC | <u> </u> | Unused. | |
| 28 | AV REF | - | Analog reference voltage (+5V). | |
| 29 | S.LEVEL | 1 | Signal level A/D input. (E type only) | |
| 30~32 | NC NC | - | Unused. | |
| 33 | PLL.DO | - | PLL IC DO signal input. (E type only) | |
| 34 | PLL.STEREO | ! | TUNER stereo signal input. | L: STEREO |
| | | - ! | | |
| 35 | PLL.SD | ! | TUNER SD signal input. | L: TUNED |
| 36 | RCV.CE | I | Receiver chip enable signal input. | L: ENABLE |
| 37 | AVSS | - | Analog ground. | |
| 38 | RESET | ! | u-Com reset. | |
| 39 | EXTAL | I | Main clock(8MHZ). | |
| 40 | XTAL | - | Main clock(8MHZ). | |
| 41 | VSS | - | u-Com ground. | |
| 42 | TX | - | Unused. | |
| 43 | TEX | I | Ground. | |
| 44 | VDD | - | Analog power supply (+5V). | |
| 45 | VFDP | - | FL power supply(-33V). | |
| 46 | SEL.STB | 0 | TC9164AF strobe. | H: LATCH |
| 47 | SEL/PLL.DT | 0 | Selector/PLL IC data signal output. | |
| 48 | SEL/PLL.CK | 0 | Selector/PLL IC clock signal output. | |
| 49 | PLL.CE | 0 | PLL IC CE signal output. | |
| 50 | T.MUTE | 0 | Tuner mute control. | L: MUTE ON |
| 51 | A.MUTE | 0 | Audio mute control. | L: MUTE ON |
| 52 | NC | - | Unused. | |
| 53 | 10dB.ATT | 0 | Volume 10dB attenuator control. | L: ATT ON |
| 54 | VOL.DT | Ō | Volume IC(M62492FP) data control. | |
| 55 | VOL.CK | Ö | Volume IC(M62492FP) clock control. | |
| 56 | VOL.STB | Ö | Volume IC(M62492FP) strobe control. | |
| 57~59 | NC NC | - | Unused. | |
| 60 | RELAY.A | 0 | SP. relay A control. | H: RELAY ON |
| 61 | RELAY.B | 0 | SP. relay B control. | H: RELAY ON |
| 62,63 | NC NC | - | Unused. | TI. NELATION |
| 64 | POWER.RLY | 0 | Power relay control. | H: RELAY ON |
| 65 | STANDBY.LED | 0 | STANDBY LED control. | H: LED ON |
| | NC | | Unused. | n. LED ON |
| 66~71 | | - | | |
| 72 | LIMITER | 0 | Output power control at SP. (A+B). K/M/X only. | |
| 73 | S.W MUTE | - | Unused. | |
| 74,75 | KS6/KS7 | 0 | Key scan 6,7. | |
| 76~81 | P1/KS5~P6/KS0 | 0 | FL segment 1~6/key scan 5~0. | |
| 82~88 | P7~P13 | 0 | FL segment 7~13. | |
| 89 | VDD | 0 | u-Com +5V power supply. | |
| 90~92 | P14~P16 | 0 | FL segment 14~16. | |
| 93~100 | G1~G8 | 0 | FL GRID 1~8. | |

ADJUSTMENT

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | RECEIVER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|-----|--|--|---|----------------------|-----------------------------|--|------|
| FM | SECTION : EXCEP | T E type SELECT | OR : FM | | | | |
| 1 | (STEREO) : L or R Pilot : ±6.75kHz dev. 70dBf (ANT. input) | | (B) | 98.0MHz | IFT (TUNER UNIT: A1) | Minimum distortion (L or R) | (a) |
| 2 | 2 TUNING LEVEL (A) 98.0MHz MONO 1kHz, ±75kHz dev. 25dBf (ANT. input) | | (B) | MONO 98.0MHz | VR1 (TUNER UNIT) | Adjust VR1 and stop at the point where ED51 (TUNED) goes on. | (a) |
| FM | SECTION : E type | only SELECTOR : F | M ※ Adjust N | O.1 and NO.2 r | epeat. | | |
| 1 | DISCRIMINATOR | (A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input) | Connect a DC voltmeter between CN2 ① and CN2 ② (TUNER UNIT) | MONO 98.0MHz | L4 (TUNER UNIT) | 0V | (a) |
| 2 | DISTORTION (MONO) | (A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input) | (B) | MONO 98.0MHz | L5 (TUNER UNIT) | Minimum distortion | (a) |
| 3 | 3 DISTORTION (STEREO) (C) 98.0MHz 1kHz,±40kHz dev. Selector: L or R Pilot: ±6kHz dev. 70dBf (ANT. input) | | (B) | AUTO 98.0MHz | IFT (TUNER UNIT : A1) | Minimum distortion (L or R) | (a) |
| 4 | TUNING LEVEL | (A) 98.0MHz MONO 1kHz, ±40kHz dev. 25dBf (ANT. input) | (B) | MONO 98.0MHz | VR1 (TUNER UNIT) | Adjust VR1 and stop at the point where ED51 (TUNED) goes on. | (a) |
| AU | DIO SECTION | | | | | | |
| 1 | IDLE CURRENT | _ | Connect a DC Volumeter across CN11 (L) CN12 (R) | Volume: 0 | VR1 (L) VR2 (R) | 11 mV | (b) |

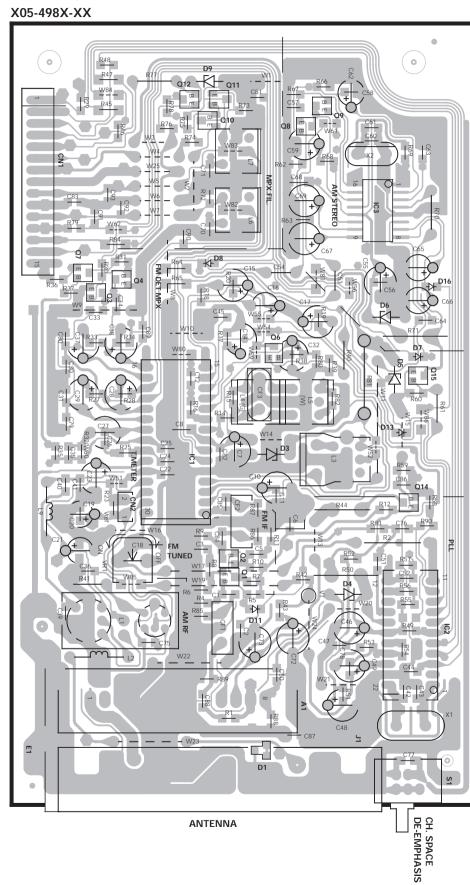
SYSTEM CONNECTIONS

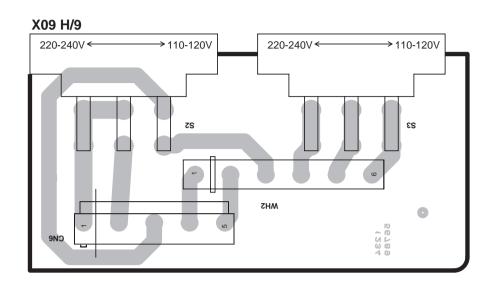




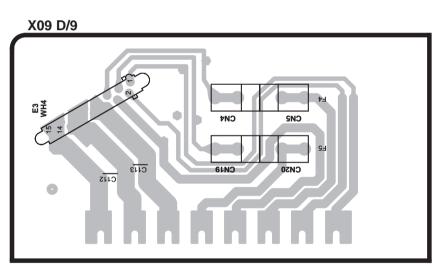
PC BOARD (Component side view)

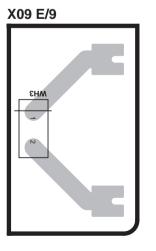
TUNER UNIT



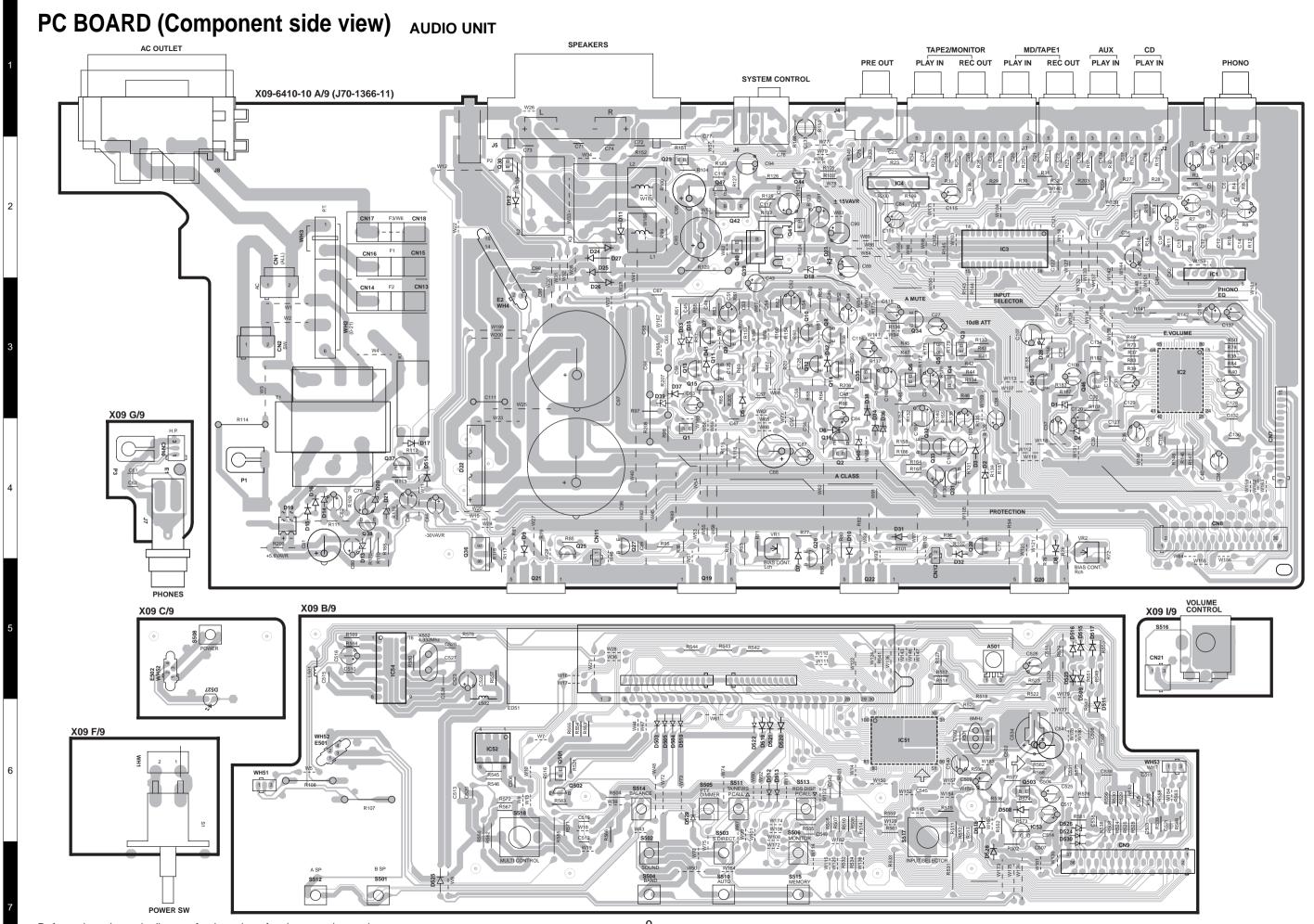


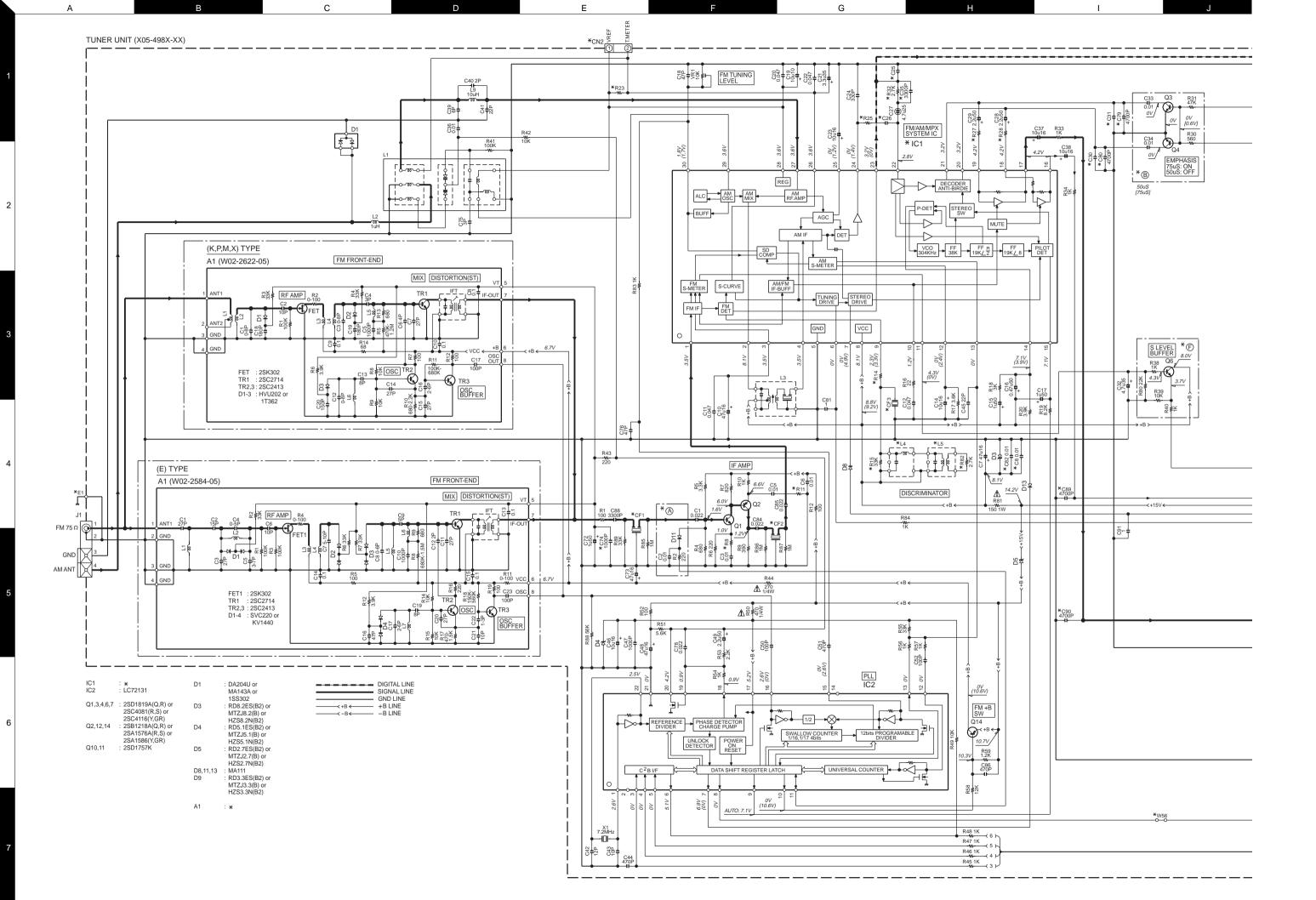
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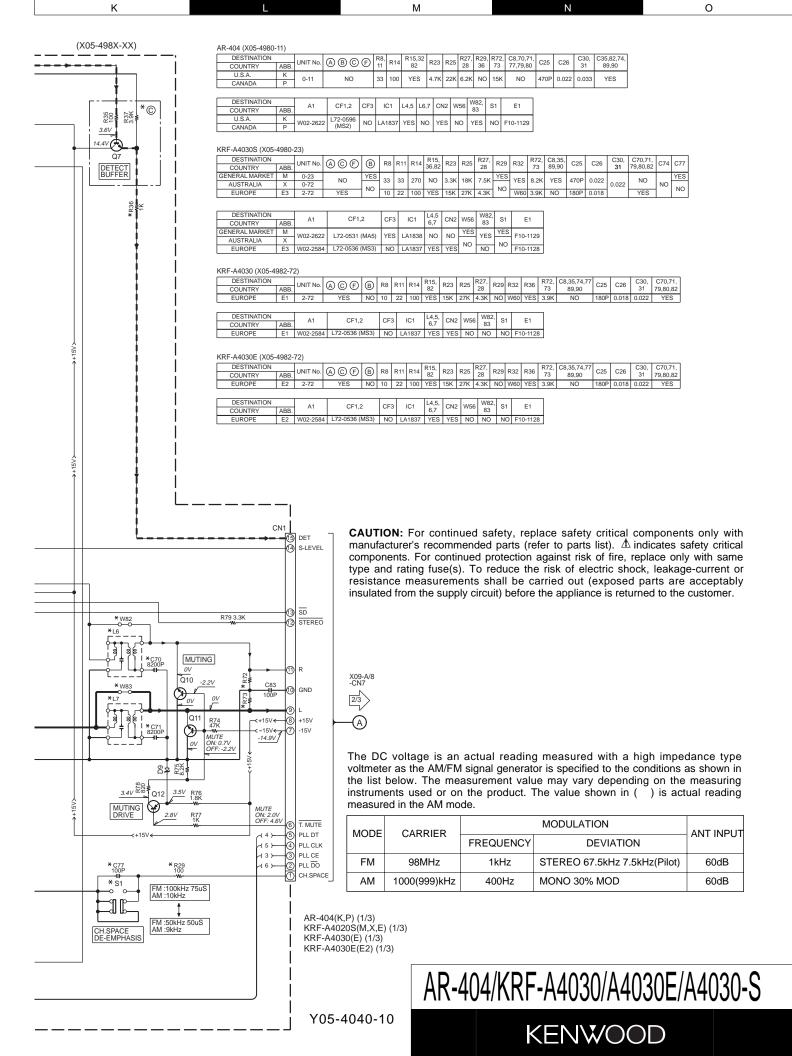


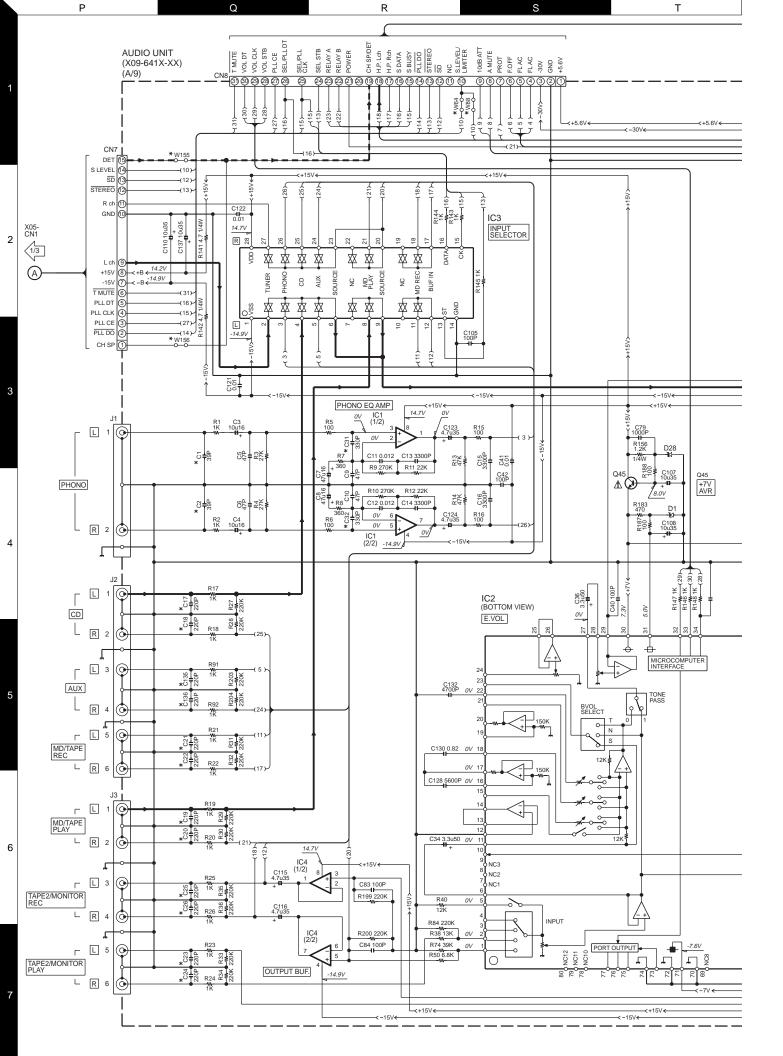


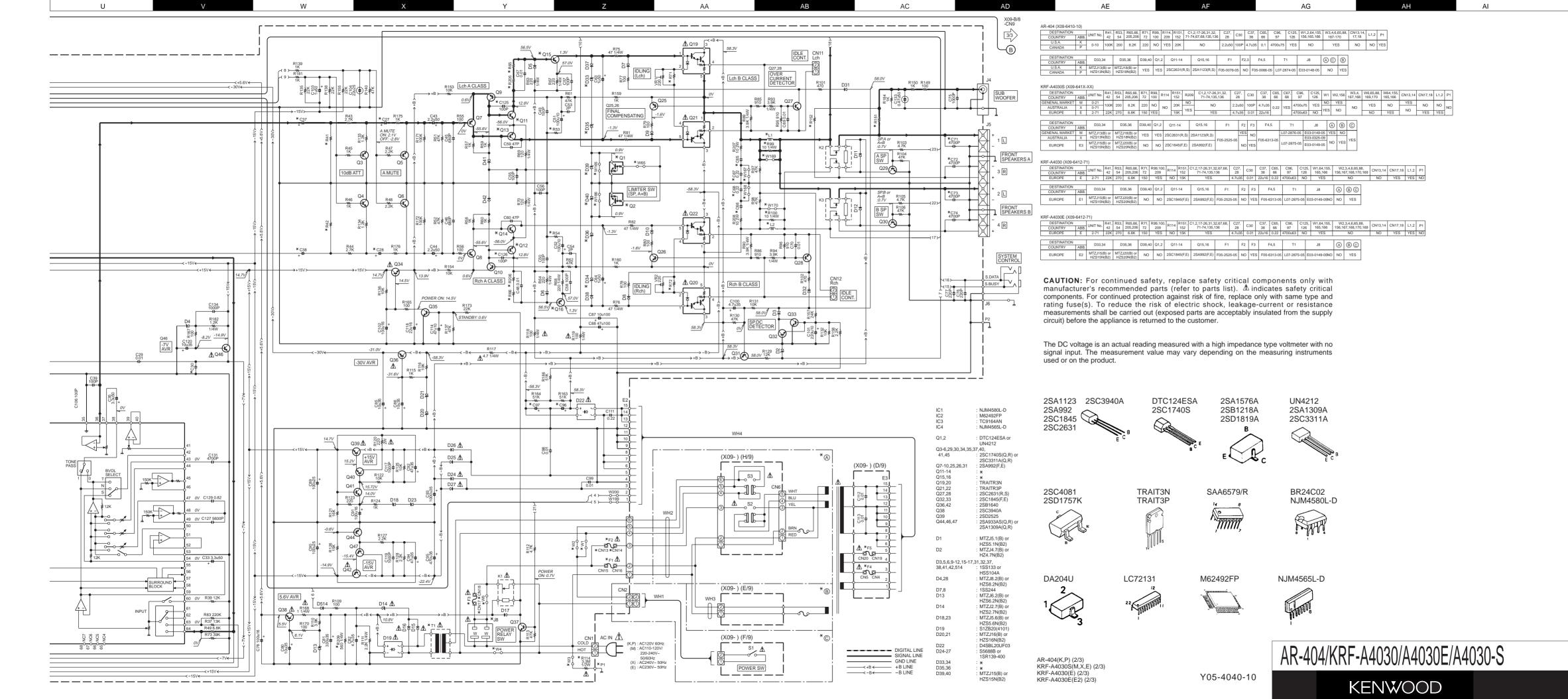
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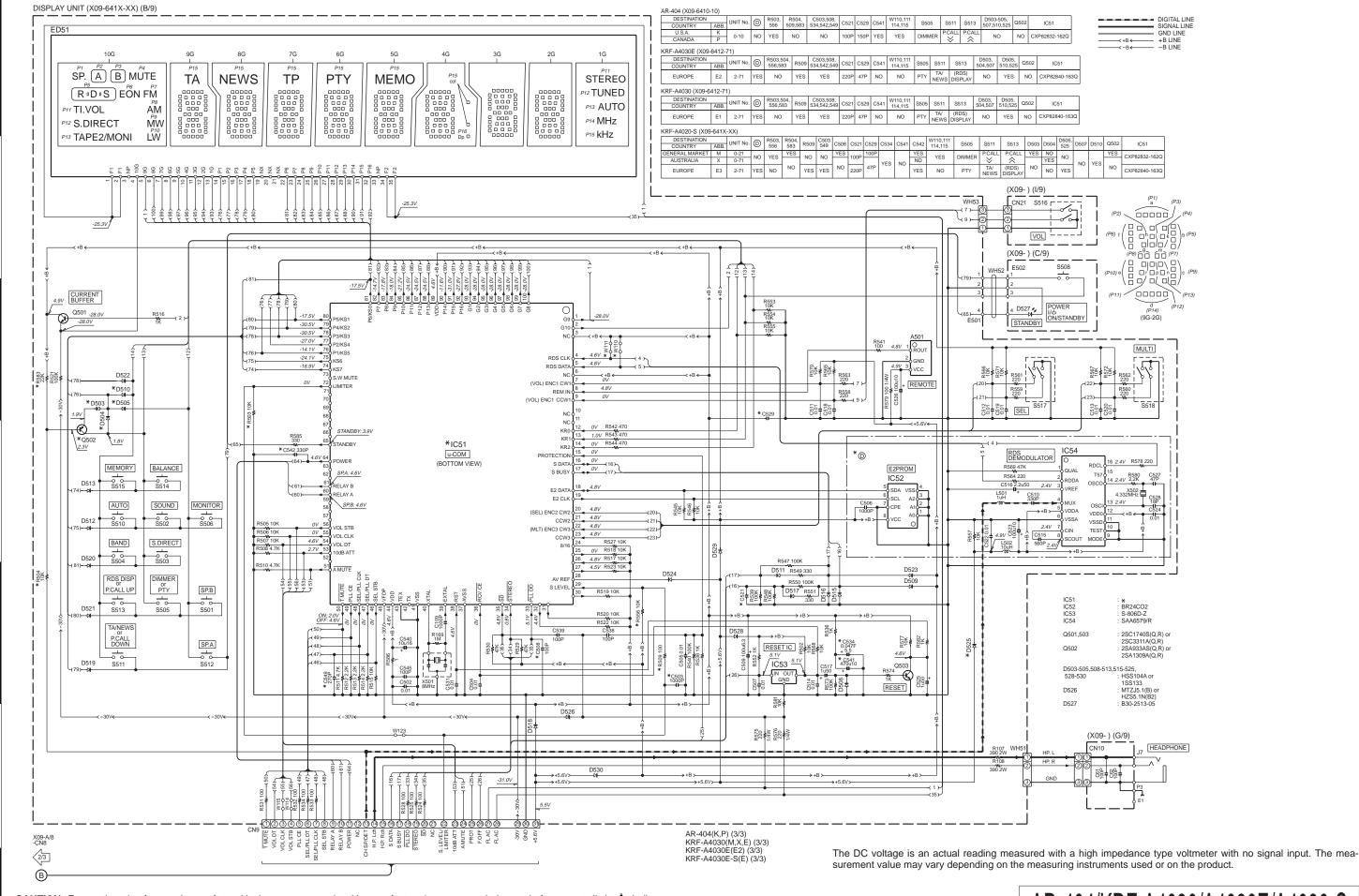












CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). \triangle indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

AR-404/KRF-A4030/A4030E/A4030-S

* New Parts

Parts without **Parts No.** are not supplied. Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.



| Ref. No | Add- ress | New Parts | Parts No. | Description | Desti- nation | Re- marks |
|---------------------------------|----------------------------------|--------------|---|---|------------------------------------|--------------|
| | | | AR-404/KRF | F-A4030/A4030E/A4030-S | | |
| 601 601 601 602 604 | 1A 1A 1A 1A 2A | * * * | A01-3733-01 A01-3733-01 A01-3734-01 A09-1123-08 A60-1762-01 | METALLIC CABINET E2 METALLIC CABINET KPE1 METALLIC CABINET MXE3 BATTERY COVER PANEL | KP | |
| 604 604 605 605 605 | 2A 2A 1A 1A | * | A60-1763-01 A60-1764-01 A70-1266-05 A70-1266-05 A70-1267-05 | PANEL PANEL REMOTE CONTROL ASSY(RC-R0709) REMOTE CONTROL ASSY(RC-R0709) REMOTE CONTROL ASSY(RC-R0708) | E1E2 MXE3 KPM X E1E2E3 | |
| 610 610 610 610 611 | 2A 2A 2A 2A 2A 2A | * * * * * | B07-2479-02 B07-2480-02 B07-2504-02 B07-2506-02 B10-3576-02 | ESCUTCHEON ESCUTCHEON ESCUTCHEON ESCUTCHEON FRONT GLASS | KP E3 MX E1E2 KP | |
| 611 611 612 613 | 2A 2A 2A 2A | * * * | B10-3577-02 B10-3578-12 B12-0385-04 B43-0314-04 B46-0096-53 | FRONT GLASS FRONT GLASS INDICATOR KENWOOD BADGE WARRANTY CARD | MX E1E2E3 | |
| - - - - | | | B46-0310-03 B46-0328-03 B46-0346-00 B46-0347-03 B58-0964-13 | WARRANTY CARD WARRANTY CARD QUESTIONAIRE CARD WARRANTY CARD CAUTION CARD (UL) | E1E2E3 K K K P K | |
| - - - - | | * * | B58-0965-13 B58-0966-13 B58-0967-03 B58-1607-03 B60-4556-00 | CAUTION CARD (T,XtypePL) CAUTION CARD (ELMtypePL) CAUTION CARD (PtypePL) CAUTION CARD INSTRUCTION MANUAL (EN) | X ME1E3 P E2 KPM | |
| - - - - | | * * * * * | B60-4556-00 B60-4557-00 B60-4558-00 B60-4559-00 B60-4560-00 | INSTRUCTION MANUAL (EN) INSTRUCTION MANUAL (EN) INSTRUCTION MANUAL (FR) INSTRUCTION MANUAL (EN/TC) INSTRUCTION MANUAL (FR/NE) | X E2 P M E1E3 | |
| - - - | | * * * | B60-4561-00 B60-4562-00 B60-4563-00 B60-4564-00 | INSTRUCTION MANUAL (IT/ES) E1E3 INSTRUCTION MANUAL (GE) INSTRUCTION MANUAL (RU//PL) INSTRUCTION MANUAL (HU/CZ) | E1E3 E2 E2 | |
| 617 618 618 618 618 | 1A 1C 1C 1C | * * | E03-0115-05 E30-2717-05 E30-2941-05 E30-2942-05 E30-2942-05 | AC PLUG ADAPTER AC POWER CORD AC POWER CORD AC POWER CORD AC POWER CORD | M X KP E3 ME1E2 | |
| 619 | 1C,2B | | E35-1772-05 | FLAT CABLE | | |
| 627 | 2B | | G11-2416-04 | CUSHION | | |
| - - - | | * * | H10-7628-02 H10-7629-02 H25-0232-04 H25-0391-04 H50-3616-04 | POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE PROTECTION BAG (235X350X0.03) PROTECTION BAG ITEM CARTON CASE | KP | |

| L : Scandinavia | | K:USA | P : Canada | R: Mexico | C : China | I: Malaysia |
|-----------------|---------|-------------|--------------|-------------|---------------------|-------------|
| V . DV/Ear Eact | Lawaii) | T · England | d E · Europo | C . Cormany | V . China(Shanghai) | , |

Y: AAFES(Europe) X: Australia Q: Russia H: Korea

* New Parts

Parts without **Parts No.** are not supplied. Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

| _ |
|---|
| |
| |

AR-404/KRF-A4030/A4030E/A4030-S PARTS LIST

| Ref. No | Add- ress | New Parts | Parts No. | | Description | | Desti- nation | R ma |
|---|----------------------------------|--------------|--|---|--|----------------------------------|------------------------------------|---------|
| - - - | | * * * | H50-3617-04 H50-3618-04 H50-3619-04 H50-3650-04 | ITEM CARTON ITEM CARTON ITEM CARTON ITEM CARTON | N CASE N CASE | | E1 M XE3 E2 | |
| 631 632 635 - | 2C 1B 1C | * | J02-1464-03 J19-3752-14 J42-0083-05 J61-0307-05 | FOOT UNIT HOLDER POWER CORI WIRE BAND | | | | |
| 639 639 640 640 | 2A 2A 2B 2B 2B 2B | * * * * * | K27-2384-04 K27-2385-04 K29-7675-12 K29-7675-12 K29-7676-12 | KNOB (BUTTO KNOB (BUTTO KNOB KNOB KNOB | ON) ON) | | E1E2 MXE3 E2 KPE1 MXE3 | |
| 641 641 641 642 642 | 2A 2A 2A 2A 2A 2A | * * * * * | K29-7678-04 K29-7678-04 K29-7679-04 K29-7681-14 K29-7681-14 | KNOB (VOLUI KNOB (VOLUI KNOB (VOLUI KNOB (MULTI KNOB (MULTI | ME) ME) /INPUT) | | E2 KPE1 MXE3 E2 KPE1 | |
| 642 643 643 643 | 2A 2A 2A 2A | * * * * | K29-7682-14 K29-7687-03 K29-7687-03 K29-7688-03 | KNOB (MULTI KNOB (SPEAR KNOB (SPEAR KNOB (SPEAR | (ER/PÓWER) (ER/POWER) | | MXE3 E2 KPE1 MXE3 | |
| 644 644 644 644 | 1B 1B 1B 1B | * | L07-2638-05 L07-2639-05 L07-2691-05 L07-2801-05 | POWER TRAN POWER TRAN POWER TRAN POWER TRAN | NSFORMER NSFORMER | | E1E2E3 M X KP | |
| 648 649 | 1A 1A | * | T90-0836-05 T90-0852-05 | LEAD WIRE A LOOP ANTEN | | | | |
| | | | TUNER | UNIT (X0 | 5-498X-XX) | | | |
| C1 C2 C3 C5 ,6 C7 | | | CK73FB1H223K CK73FB1H103K CK73FB1H103K CK73FB1H103K CK73FB1H103K CE04LW1C470M | CHIP C CHIP C CHIP C CHIP C ELECTRO | 0.022UF 0.010UF 0.010UF 0.010UF 47UF | K K K K 16WV | E1E2E3 | |
| C8 C10 C11 ,12 C14 C15 | | | CK73EB1H103K CE04LW1C470M CK73FB1H473K CE04LW1C100M CE04LW1H010M | CHIP C ELECTRO CHIP C ELECTRO ELECTRO | 0.010UF 47UF 0.047UF 10UF 1.0UF | K 16WV K 16WV 50WV | MX | |
| C16 C17 C18 C19 C20 | | | C90-3251-05 CE04LW1H010M CC73FCH1H470J C90-3217-05 CK73FB1H473K | ELECTRO ELECTRO CHIP C ELECTRO CHIP C | 0.47UF 1.0UF 47PF 10UF 0.047UF | 50WV 50WV J 10WV K | | |
| C21 C22 C23 C24 C25 | | | C90-3241-05 CK73FB1H473K CE04LW1C100M CK73FB1H331K CC73FCH1H181J | ELECTRO CHIP C ELECTRO CHIP C CHIP C | 3.3UF 0.047UF 10UF 330PF 180PF | 35WV K 16WV K J | E1E2E3 | |
| C25 C26 C26 C27 C28 ,29 | | | CC73FCH1H471J CK73FB1H183K CK73FB1H223K CE04HW1E4R7M CE04LW1H2R2M | CHIP C CHIP C CHIP C NP-ELEC ELECTRO | 470PF 0.018UF 0.022UF 4.7UF 2.2UF | J K K 25WV 50WV | KPMX E1E2E3 KPMX | |
| L : Scandinavi Y : PX(Far Eas Y : AAFES(Eur | t,Hawaii) | T: | USA P: Canada England E: Europe Australia Q: Russia | R: Mexico G: Germany H: Korea | C: China V: China(Shanghai) M: Other Areas | I : Malaysia ↑ indicates safe | ety critical con | nnor |

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* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

0

L: Scandinavia

Y: PX(Far East, Hawaii)

Y: AAFES(Europe)

K: USA

T : England

X : Australia

P: Canada

E: Europe

Q:Russia

R: Mexico

H: Korea

G: Germany

C: China

V: China(Shanghai)

I: Malaysia

| Ref. No | Add- ress | New Parts | Parts No. | De | scription | | Desti- nation | Re- marks |
|---|--------------|--------------|--|--|---|--------------------------------|--------------------------|--------------|
| C30 ,31 C30 ,31 C30 ,31 C32 C33 ,34 | | | CK73FB1H223K CK73FB1H223K CK73FB1H333K CE04LW1V4R7M CK73FB1H103K | CHIP C CHIP C CHIP C ELECTRO CHIP C | 0.022UF 0.022UF 0.033UF 4.7UF 0.010UF | K K K 35WV K | E2E3 MXE1 KP | |
| C35 C35 C36 C37 ,38 C39 | | | CK73FB1H332K CK73FB1H332K CK73FB1H103K CE04LW1C100M CC73FCH1H060D | CHIP C CHIP C CHIP C ELECTRO CHIP C | 3300PF 3300PF 0.010UF 10UF 6.0PF | K K K 16WV D | KPM X | |
| C40 C41 C42 C43 C44 | | | CC73FCH1H020C CC73FCH1H220J CC73FCH1H120J CC73FCH1H100D CK73FB1H471K | CHIP C CHIP C CHIP C CHIP C CHIP C | 2.0PF 22PF 12PF 10PF 470PF | C J D K | | |
| C45 C46 C47 C48 C49 | | | CC73FCH1H220J CE04LW1C100M CK73FB1H102K CE04LW1C470M CE04LW1H2R2M | CHIP C ELECTRO CHIP C ELECTRO ELECTRO | 22PF 10UF 1000PF 47UF 2.2UF | J 16WV K 16WV 50WV | | |
| C50 C51 C52 C70 ,71 C72 | | | CC73FSL1H101J CK73FB1H471K CC73FSL1H101J CK73FB1H822K CE04LW1H010M | CHIP C CHIP C CHIP C CHIP C ELECTRO | 100PF 470PF 100PF 8200PF 1.0UF | J K J K 50WV | E1E2E3 | |
| C73 C74 C75 C76 C77 | | | CE04LW1C470M CK73FB1H102K CC73FCH1H030C CC73FCH1H470J CC73FSL1H101J | ELECTRO CHIP C CHIP C CHIP C CHIP C | 47UF 1000PF 3.0PF 47PF 100PF | 16WV K C J J | KP M | |
| C78 C79 ,80 C81 C82 C82 | | | CK73FB1H223K CK73FB1H472K CK73FF1C105Z CK73FB1H103K CK73FB1H103K | CHIP C CHIP C CHIP C CHIP C CHIP C | 0.022UF 4700PF 1.0UF 0.010UF 0.010UF | K K Z K K | E1E2E3 E2E3 KPE1 | |
| C83 C84 ,85 C86 C88 C89 ,90 | | | CC73FSL1H101J CK73FB1H223K CK73FB1H471K CK73FB1H332K CK73FB1H472K | CHIP C CHIP C CHIP C CHIP C CHIP C | 100PF 0.022UF 470PF 3300PF 4700PF | J K K K | KPMX | |
| C91 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| CN1 CN2 CN2 J1 J1 | | | E40-9831-05 E40-4871-05 E40-4871-05 E20-0321-05 E70-0052-05 | SOCKET FOR PIN A PIN ASSY PIN ASSY LOCK TERMINAL B LOCK TERMINAL B | 3OARD(2P,F) | | E2E3 KPE1 | |
| E1 E1 E1 | | | F10-1128-14 F10-1129-14 F10-1129-14 | SHIELDING PLATE SHIELDING PLATE SHIELDING PLATE | | | E1E2E3 KPM X | |
| CF1 ,2 CF1 ,2 CF1 ,2 CF3 L1 | | | L72-0531-05 L72-0536-05 L72-0596-05 L72-0607-05 L39-1384-05 | CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER CERAMIC FILTER COMBINATION CO | IL | | MX E1E2E3 KP MX | |

| L : Scandinavia | !! | K:USA | P : Canada | R: Mexico | C : China | I: Malaysia | | |
|---|-----|------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------|--------------|---------|
| Y: PX(Far East, Har Y: AAFES(Europe) | . , | T : England X : Australia | E : Europe O : Russia | G : Germany H : Korea | V : China(Shanghai) M : Other Areas | ♠ indicates safety | critical con | nponent |

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| Ref. No | Add- ress | New Parts | Parts No. | | Description | | | Desti- nation | Re- marks |
|---|--------------|--------------|--|--|-------------------------------------|--------|---|------------------------------------|--------------|
| L2 L3 L4 L4 L5 | | | L40-1091-17 L30-0911-05 L30-0950-05 L30-0950-05 L30-0951-05 | SMALL FIXED II AM IFT FM IFT FM IFT FM IFT | NDUCTOR(1L | JH) | | E2E3 KPE1 E2E3 | |
| L5 L6 ,7 L9 X1 | | | L30-0951-05 L79-1239-05 L40-1001-17 L77-2232-05 | FM IFT LC FILTER SMALL FIXED II CRYSTAL RESO | | OUH,K) | | KPE1 E1E2E3 | |
| R1 R4 R5 R6 R7 | | | RK73FB2A101J RK73FB2A681J RK73FB2A332J RK73FB2A221J RK73FB2A821J | CHIP R CHIP R CHIP R CHIP R CHIP R | 100 680 3.3K 220 820 | J | 1/10W 1/10W 1/10W 1/10W 1/10W | | |
| R8 R8 R9 R10 R11 | | | RK73FB2A100J RK73FB2A330J RK73FB2A391J RK73FB2A102J RK73FB2A220J | CHIP R CHIP R CHIP R CHIP R CHIP R | 10 33 390 1.0K 22 | J | 1/10W 1/10W 1/10W 1/10W 1/10W | E1E2E3 KPMX | |
| R11 R12 R14 R14 R14 | | | RK73FB2A330J RK73FB2A101J RK73FB2A101J RK73FB2A101J RK73FB2A271J | CHIP R CHIP R CHIP R CHIP R CHIP R | 33 100 100 100 270 | J | 1/10W 1/10W 1/10W 1/10W 1/10W | KPMX E2E3 KPE1 MX | |
| R15 R15 R16 R17 R18 | | | RK73FB2A333J RK73FB2A333J RK73FB2A220J RK73FB2A362J RK73FB2A302J | CHIP R CHIP R CHIP R CHIP R CHIP R | 33K 33K 22 3.6K 3.0K | J | 1/10W 1/10W 1/10W 1/10W 1/10W | E2E3 KPE1 | |
| R19 R20 R23 R23 R23 | | | RK73FB2A822J RK73FB2A392J RK73FB2A153J RK73FB2A332J RK73FB2A472J | CHIP R CHIP R CHIP R CHIP R CHIP R | 8.2K 3.9K 15K 3.3K 4.7K | J | 1/10W 1/10W 1/10W 1/10W 1/10W | E1E2E3 MX KP | |
| R25 R25 R25 R27 ,28 R27 ,28 | | | RK73FB2A183J RK73FB2A223J RK73FB2A273J RK73FB2A432J RK73FB2A622J | CHIP R CHIP R CHIP R CHIP R CHIP R | 18K 22K 27K 4.3K 6.2K | J | 1/10W 1/10W 1/10W 1/10W 1/10W | MX KP E1E2E3 E1E2E3 KP | |
| R27 ,28 R29 R30 R31 R32 | | | RK73FB2A752J RK73FB2A101J RK73FB2A561J RK73FB2A473J RK73FB2A272J | CHIP R CHIP R CHIP R CHIP R CHIP R | 7.5K 100 560 47K 2.7K | J | 1/10W 1/10W 1/10W 1/10W 1/10W | MX M M M KPM | |
| R32 R33 ,34 R35 R36 R37 | | | RK73FB2A272J RK73FB2A102J RK73FB2A101J RK73FB2A102J RK73FB2A392J | CHIP R CHIP R CHIP R CHIP R CHIP R | 2.7K 1.0K 100 1.0K 3.9K | J | 1/10W 1/10W 1/10W 1/10W 1/10W | X E1E2E3 E1E2E3 E1E2E3 | |
| R38 R39 R42 R43 R44 | | | RK73FB2A102J RK73FB2A103J RK73FB2A103J RK73FB2A221J RD14NB2E271J | CHIP R CHIP R CHIP R CHIP R RD | 1.0K 10K 10K 220 270 | J | 1/10W 1/10W 1/10W 1/10W 1/4W | E1E2E3 E1E2E3 | |

* New Parts

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Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Desti-nation Re-marks Add-ress Parts Parts No. Description Ref. No R45 RK73EB2B102J CHIP R 1/8W R46 RK73FB2A102J CHIP R 1.0K 1/10W R47 CHIP R 1.0K RK73EB2B102J 1/8W R48 RK73FB2A102J CHIP R 1.0K 1/10W R49 CHIP R RK73FB2A103J 10K 1/10W R50 RD14NB2E471J 470 1/4W R51 RK73FB2A562J CHIP R 5.6K 1/10W CHIP R R52 RK73FB2A101J 100 1/10W R53 R54 CHIP R 2.2K RK73FB2A222J 1/10W 1.0K RK73FB2A102J 1/10W R55 R56 ,57 R58 R59 R72 ,73 RK73FB2A333J CHIP R 33K 1/10W RK73FB2A102J CHIP R 1.0K 1/10W 12K 1.2K RK73FB2A123J CHIP R 1/10W CHIP R RK73FB2A122J 1/10W ΚP RK73FB2A153J CHIP R 15K 1/10W R72.73 RK73FB2A392J CHIP R 3.9K E1E2E3 1/10W R72 ,73 RK73FB2A822J CHIP R 8.2K 1/10W MX R74 R75 RK73FB2A473J CHIP R 47K 1/10W RK73FB2A822J CHIP R 8.2K 1/10W R76 RK73FB2A182J CHIP R 1.8K 1/10W R78 RK73FB2A821J CHIP R 820 1/10W 3.3K 22K R79 RK73FB2A332J CHIP R 1/10W R80 RK73FB2A223J CHIP R E1E2E3 1/10W R81 RS14KB3A151J FL-PROOF RS 150 1W E2E3 R82 RK73FB2A272J CHIP R 2.7K 1/10W R82 RK73FB2A272J CHIP R 2.7K 1/10W KPE1 R83 CHIP R 1.0K RK73FB2A102J 1/10W R84 RK73EB2B102J CHIP R 1.0K 1/8W R85 -87 1.0M RK73FB2A105J CHIP R 1/10W R88 RK73FB2A563J CHIP R 56K 1/10W R89 RK73FB2A333J CHIP R 33K J SEMI FIXED VARIABLE RESISTOR 1/10W VR1 R32-0037-05 W51,52 R92-0670-05 CHIP R 0 OHM W54 -56 R92-0670-05 CHIP R 0 OHM W54 ,55 R92-0670-05 CHIP R 0 OHM E1E2E3 W54 ,55 W59 CHIP R CHIP R 0 OHM 0 OHM R92-0670-05 KPX R92-0670-05 KPM W59 R92-0670-05 CHIP R 0 OHM W59 .60 R92-0670-05 CHIP R 0 OHM E1E2E3 W62 R92-0670-05 0 OHM CHIP R W80 CHIP R 0 OHM R92-0679-05 W82 -85 R92-0679-05 CHIP R 0 OHM KPM W82 -85 R92-0679-05 CHIP R 0 OHM W84 ,85 R92-0679-05 CHIP R 0 OHM E1E2E3 S62-0034-05 SLIDE SWITCH Μ

L: Scandinavia Y: PX(Far East, Hawaii) Y: AAFES(Europe)

T: England X : Australia

DA204U MA143A

1SS302

HZS8.2N(B2)

MTZJ8.2(B)

HZS5.1N(B2)

MTZJ5.1(B) HZS2.7N(B2) MTZJ2.7(B)

P: Canada E : Europe Q: Russia

R: Mexico G: Germany H: Korea

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ZENER DIODE

ZENER DIODE

ZENER DIODE ZENER DIODE ZENER DIODE

C: China

1: Malaysia V: China(Shanghai)

Y: PX(Far East, Hawaii)

Y: AAFES(Europe)

T: England

X : Australia

E: Europe

Q: Russia

* New Parts

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|--|--------------|--------------|--|--|--------------------------------------|-----------------------------|--------------------|-------------|
| Ref. No | Add- ress | New Parts | | | Description | | Desti- nation | Re- mark |
| D8 D9 D9 D11 D13 | | | MA111 HZS3.3N(B2) MTZJ3.3(B) MA111 MA111 | DIODE ZENER DIODE ZENER DIODE DIODE DIODE | | | E1E2E3 | |
| IC1 IC1 IC1 IC2 Q1 | | | LA1837 LA1837 LA1838 LC72131 2SC4081(R,S) | ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC TRANSISTOR | | | E2E3 KPE1 MX | |
| Q1 Q2 Q2 Q3 ,4 Q3 ,4 | | | 2SD1819A(Q,R) 2SA1576A(R,S) 2SB1218A(Q,R) 2SC4081(R,S) 2SD1819A(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | | M M | |
| Q6 ,7 Q6 ,7 Q10 ,11 Q12 Q12 | | | 2SC4081(R,S) 2SD1819A(Q,R) 2SD1757K 2SA1576A(R,S) 2SB1218A(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | | E1E2E3 E1E2E3 | |
| Q14 Q14 | | | 2SA1576A(R,S) 2SB1218A(Q,R) | TRANSISTOR TRANSISTOR | | | | |
| A1 A1 A1 | | | W02-2584-05 W02-2622-05 W02-2622-05 | FM FRONT-END FM FRONT-END FM FRONT-END | ASSY | | E1E2E3 KPM X | |
| | | | AUDIO | UNIT (X09- | 641X-XX) | 1 | | |
| D527 | | | B30-2513-05 | LED(RED) | | | | |
| C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10 | | | CC45FSL1H390J CE04LW1C100M CC45FSL1H470J CE04LW1C470M CC45FSL1H470J | CERAMIC ELECTRO CERAMIC ELECTRO CERAMIC | 39PF 10UF 47PF 47UF 47PF | J 16WV J 16WV J | E1E2E3 | |

| D527 | B30-2513-05 | LED(RED) | | | |
|---|---|---|---|-----------------------------------|------------------------------|
| C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10 | CC45FSL1H390J CE04LW1C100M CC45FSL1H470J CE04LW1C470M CC45FSL1H470J | CERAMIC ELECTRO CERAMIC ELECTRO CERAMIC | 39PF 10UF 47PF 47UF 47PF | J 16WV J 16WV J | E1E2E3 |
| C11 ,12 C13 -16 C17 -26 C27 ,28 C27 ,28 | CQ93FMG1H123J CQ93FMG1H332J CC45FSL1H221J CE04KW1H2R2M CE04KW1H2R2M | MYLAR MYLAR CERAMIC ELECTRO ELECTRO | 0.012UF 3300PF 220PF 2.2UF 2.2UF | J J J 50WV 50WV | E1E2E3 KPM X |
| C27 ,28 C29 C30 C30 C30 | CC45FSL1H101J | ELECTRO CERAMIC CERAMIC CERAMIC MYLAR | 4.7UF 0.010UF 100PF 100PF 0.010UF | 35WV Z J J J | E1E2E3 KPM X E1E2E3 |
| C31 ,32 C33 -36 C37 ,38 C37 ,38 C37 ,38 | CC45FSL1H331J CE04LW1H3R3M CE04LW1C220M CE04LW1V4R7M CE04LW1V4R7M | CERAMIC ELECTRO ELECTRO ELECTRO ELECTRO | 330PF 3.3UF 22UF 4.7UF 4.7UF | J 50WV 16WV 35WV 35WV | E1E2E3 E1E2E3 KPM X |
| C39 ,40 C41 C42 C43 ,44 C45 ,46 | CC45FSL1H101J CK45FF1H103Z CC45FSL1H101J CE04KW1H2R2M CK45FB1H681K | CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC | 100PF 0.010UF 100PF 2.2UF 680PF | J Z J 50WV K | |
| C47 ,48 | CK45FF1H103Z | CERAMIC | 0.010UF | Z | |

G: Germany

H: Korea

V: China(Shanghai)

M: Other Areas ⚠ indicates safety critical components

23

D3

D3

D4

D4 D5 D5

AR-404/KRF-A4030/A4030E/A4030-S

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Taile ohne Parts No. werden nicht geliefert

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| Ref. No | Add- ress | New Parts | Parts No. | De | escription | | Desti- nation | Re- marks |
|--|--|--|--|---|---|--|------------------|--------------|
| C49 ,50 C51 ,52 C53 ,54 C55 -58 C59 ,60 | C51 ,52 C53 ,54 C55 -58 C59 ,60 | CC45FSL1H10 CE04KW1A101 CC45FSL1H02 CC45FSL1H10 | CC45FSL1H101J CE04KW1A101M CC45FSL1H020C CC45FSL1H101J CC45FSL2H470J | CERAMIC ELECTRO CERAMIC CERAMIC CERAMIC | 100PF 100UF 2.0PF 100PF 47PF | J 10WV C J J | Hation | marks |
| C61 ,62 C63 ,64 C65 ,66 C67 ,68 C67 ,68 | | | CC45FSL1H101J CE04LW1H010M CQ93FMG1H104J CQ93FMG1H224J CQ93FMG1H224J | CERAMIC ELECTRO MYLAR MYLAR MYLAR | 100PF 1.0UF 0.10UF 0.22UF 0.22UF | J 50WV J J J | E2E3 MXE1 | |
| C69 ,70 C71 -74 C75 C76 ,77 C78 | | | CK45FF1H103Z CK45FF1H472Z CK45FB1H102K CC45FSL1H221J CE04LW1C101M | CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO | 0.010UF 4700PF 1000PF 220PF 100UF | Z Z K J 16WV | E1E2E3 | |
| C79 C80 C81 C82 C83 ,84 | | | CK45FB1H102K CE04LW1V100M CE04LW1V331M CE04LW1V4R7M CC45FSL1H101J | CERAMIC ELECTRO ELECTRO ELECTRO CERAMIC | 1000PF 10UF 330UF 4.7UF 100PF | K 35WV 35WV 35WV J | | |
| C85 ,86 C87 C88 C89 ,90 C91 | | | CE04LW1V100M CE04LW2A100M CE04LW2A470M CE04LW1E101M CE04LW1C101M | ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO | 10UF 10UF 47UF 100UF 100UF | 35WV 100WV 100WV 25WV 16WV | | |
| C92 C93 C94 C95 C96 ,97 | | | CE04LW1V470M CE04LW1V102M CE04LW1V470M CE04LW1V471M C90-3832-05 | ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO | 47UF 1000UF 47UF 470UF 4700UF | 35WV 35WV 35WV 35WV 75WV | KPM | |
| C96 ,97 C96 ,97 C98 ,99 C100 C101 | | | C90-3832-05 C90-3833-05 CK45FF1H103Z CE04LW1V4R7M CE04LW1A221M | ELECTRO ELECTRO CERAMIC ELECTRO ELECTRO | 4700UF 4700UF 0.010UF 4.7UF 220UF | 75WV 63WV Z 35WV 10WV | X E1E2E3 | |
| C102 C103 C104 C105,106 C107,108 | | | CE04LW1C101M CE04LW1H010M CE04HW1E220M CC45FSL1H101J CE04LW1V100M | ELECTRO ELECTRO NP-ELEC CERAMIC ELECTRO | 100UF 1.0UF 22UF 100PF 10UF | 16WV 50WV 25WV J 35WV | | |
| C109 C110 C111 C112,113 C114 | | | CK45FB1H102K CE04LW1V100M C91-1480-05 CK45FF1H103Z CE04LW1A470M | CERAMIC ELECTRO MP CERAMIC ELECTRO | 1000PF 10UF 0.22UF 0.010UF 47UF | K 35WV 250WV Z 10WV | | |
| C115,116 C117 C118 C119 C120 | | | CE04LW1V4R7M CK45FB1H102K CE04LW1C220M CK45FB1H102K CE04LW1V100M | ELECTRO CERAMIC ELECTRO CERAMIC ELECTRO | 4.7UF 1000PF 22UF 1000PF 10UF | 35WV K 16WV K 35WV | | |
| C121,122 C123,124 C125,126 C125,126 C127,128 | | | CK45FF1H103Z CE04LW1V4R7M CC45FSL2H101J CC45FSL2H101J CQ93FMG1H562J | CERAMIC ELECTRO CERAMIC CERAMIC MYLAR | 0.010UF 4.7UF 100PF 100PF 5600PF | Z 35WV J J J | KPM X | |

| L : Scandinavia | K:USA | P: Canada | R: Mexico | C: China | I : Malaysia |
|-------------------------|---------------|------------|------------|---------------------|---|
| Y: PX(Far East, Hawaii) | T: England | E : Europe | G: Germany | V : China(Shanghai) | - |
| Y: AAFES(Europe) | X : Australia | Q: Russia | H: Korea | M: Other Areas | ♠ indicates safety critical components. |

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| Ref. No | Add- ress | New Parts | Parts No. | | Description | | Desti- nation | Re- marks |
|--|--------------|--------------|---|--|--|---------------------------------|--|--------------|
| C129,130 C131,132 C133 C134 C135,136 | | * | C91-1584-05 CQ93FMG1H472J CE04HW1HR47M CK45FB1H102K CC45FSL1H221J | MF-C MYLAR NP-ELEC CERAMIC CERAMIC | 0.82UF 4700PF 0.47UF 1000PF 220PF | J J 50WV K J | E1E2E3 | |
| C137 C502 C503 C504,505 C506 | | | CE04LW1V100M CK45FF1H103Z CK45FB1H102K CK45FF1H103Z CK45FB1H102K | ELECTRO CERAMIC CERAMIC CERAMIC CERAMIC | 10UF 0.010UF 1000PF 0.010UF 1000PF | 35WV Z K Z K | E1E2E3 | |
| C507 C508 C508 C509 C510 | | * | CK45FF1H103Z CC45FSL1H101J CC45FSL1H101J CE04RW0J101M CC45FSL1H331J | CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC | 0.010UF 100PF 100PF 100UF 330PF | Z J J 6.3WV J | E3 XE1E2 E1E2E3 | |
| C511-514 C515 C516 C517 C518-520 | | | CK45FF1H103Z CK45FB1H561K CE04LW1H2R2M CE04LW1H010M CK45FF1H103Z | CERAMIC CERAMIC ELECTRO ELECTRO CERAMIC | 0.010UF 560PF 2.2UF 1.0UF 0.010UF | Z K 50WV 50WV Z | E1E2E3 E1E2E3 | |
| C521 C521 C522 C523 C524 | | | CC45FSL1H101J CC45FSL1H221J CK45FF1H103Z CE04LW1A101M CK45FF1H103Z | CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC | 100PF 220PF 0.010UF 100UF 0.010UF | J J Z 10WV Z | KPMX E1E2E3 E1E2E3 E1E2E3 E1E2E3 | |
| C525 C526 C527 C528 C529 | | | CE04LW1H010M CE04LW1A101M CC45FCH1H470J CC45FCH1H180J CC45FSL1H101J | ELECTRO ELECTRO CERAMIC CERAMIC CERAMIC | 1.0UF 100UF 47PF 18PF 100PF | 50WV 10WV J J J | E1E2E3 E1E2E3 M | |
| C529 C529 C529 C531 C534 | | | CC45FSL1H151J CC45FSL1H470J CC45FSL1H470J CK45FF1H103Z C90-1827-05 | CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO | 150PF 47PF 47PF 0.010UF 0.047F | J J J Z 5.5WV | KP E3 XE1E2 E2E3 | |
| C534 C538,539 C540 C541 C542 | | | C90-1827-05 CC45FSL1H101J CE04RW1C100M CE04LW1A471M CC45FSL1H331J | ELECTRO CERAMIC ELECTRO ELECTRO CERAMIC | 0.047F 100PF 10UF 470UF 330PF | 5.5WV J 16WV 10WV J | MXE1 KP E3 | |
| C542 C545 C549 | | | CC45FSL1H331J CC45FSL1H101J CC45FSL1H271J | CERAMIC CERAMIC CERAMIC | 330PF 100PF 270PF | J J | ME1E2 E1E2E3 | |
| CN1 CN2 CN2 CN6 CN7 | | | E40-4245-05 E40-4245-05 E40-4245-05 E40-4281-05 E40-9848-05 | PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY | | | E2E3 MXE1 M | |
| CN8 ,9 CN10 CN11,12 CN21 J1 | | | E40-8319-05 E40-3247-05 E40-4871-05 E40-3261-05 E63-0068-15 | FLAT CABLE OPIN ASSY PIN ASSY PIN ASSY PIN JACK | CONNECTOR | | | |
| J2 ,3 | | | E63-0047-15 | PIN JACK | | | | |

| L : Scandinavia | K: USA | P: Canada | R: Mexico | C : China | I: Malaysia |
|-------------------------|---------------|-----------|------------|--------------------|---|
| Y: PX(Far East, Hawaii) | T : England | E: Europe | G: Germany | V: China(Shanghai) | - |
| Y: AAFES(Europe) | X : Australia | Q: Russia | H: Korea | M: Other Areas | ▲ indicates safety critical components. |

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.



| Ref. No | Add- ress | New Parts | Parts No. | De | escription | | | Desti- nation | Re- marks |
|---|--|--|--|--|--|--|--|--|---|
| J4 J4 J5 J6 J7 | | | E63-0116-05 E63-0164-05 E70-0047-05 E11-0293-05 E11-0127-05 | | | P V) | | | |
| J8 J8 J8 J8 | | | E03-0148-05 E03-0149-05 E03-0149-05 E03-0325-05 | AC OUTLET AC OUTLET AC OUTLET AC OUTLET | | | | KP E3 ME1E2 X | |
| F1 F1 F1 F2 F3 | | | F05-2525-05 F05-2525-05 F50-0076-05 F05-2525-05 F05-2525-05 | FUSE (SEMKO) FUSE (SEMKO) FUSE(5X20) FUSE (SEMKO) FUSE (SEMKO) | (250V T2) | 2.5AL) 2.5AL) | | E3M XE1E2 KP M E1E2E3 | |
| F4 ,5 F4 ,5 F4 ,5 | | | F05-6313-05 F05-6313-05 F50-0066-05 | FUSE (SEMKO) FUSE (SEMKO) FUSE(5X20) | | | | E2E3 MXE1 KP | |
| - CN4 ,5 CN13-14 CN15,16 CN17,18 | | | J19-5928-13 J13-0075-05 J13-0075-05 J13-0075-05 J13-0075-05 | HOLDER FUSE CLIP FUSE CLIP FUSE CLIP FUSE CLIP | | | | M E1E2E3 | |
| CN19,20 E1 | | | J13-0075-05 J11-0808-05 | FUSE CLIP WIRE CLAMPER | | | | | |
| L1 ,2 L501 L502 T1 T1 | | | L39-0085-05 L40-1091-17 L40-1001-17 L07-2575-05 L07-2874-05 | SMALL FIXED INDI SMALL FIXED INDI POWER TRANSFO | UCTOR(1L UCTOR(10 DRMER | IH) | | E1E2E3 E1E2E3 E1E2E3 E3 KP | |
| T1 T1 X501 X502 | | | L07-2875-05 L07-2876-05 L78-0290-05 L77-2002-05 | POWER TRANSFORESONATOR | RMER (8MHZ) | 2MHZ |) | XE1E2 M E1E2E3 | |
| R63 ,64 R67 ,68 R69 ,70 R75 ,76 R81 ,82 | | | RD14NB2E221J RD14NB2E221J RD14NB2E121J RD14NB2E470J RD14NB2E470J | RD RD RD RD RD | 220 220 120 47 47 |))) | 1/4W 1/4W 1/4W 1/4W 1/4W | | |
| R89 ,90 R93 ,94 R99 ,100 R107,108 R111 | | | RD14NB2E392J RD14NB2E392J RD14NB2E100J RS14KB3D391J RD14NB2E222J | RD RD RD FL-PROOF RS RD | 3.9K 3.9K 10 390 2.2K |)]] | 1/4W 1/4W 1/4W 2W 1/4W | E1E2E3 | |
| R117 R118,119 | | | R92-1844-05 RD14NB2E4R7J RD14NB2E101J RS14KB3D221J RD14NB2E4R7J | CARBON RD RD FL-PROOF RS RD | 3.3M 4.7 100 220 4.7 |]]] | 1/2W 1/4W 1/4W 2W 1/4W | KP | |
| R156 R168 R182 R207,208 R209 | | | RD14NB2E122J RD14NB2E1R0J RD14NB2E122J RS14KB3D100J RD14NB2E561J | RD RD RD FL-PROOF RS RD | 1.2K 1 1.2K 10 560 | J | 1/4W 1/4W 1/4W 2W 1/4W | E1E2E3 | |
| | J4 J4 J4 J5 J6 J7 J8 J8 J8 J8 J8 F1 F1 F1 F2 F3 F4 ,5 F4 ,5 F4 ,5 CN13-14 CN15-16 CN17-18 CN19-20 E1 L1 ,2 L501 L502 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 | Ref. NO ress J4 J4 J4 J5 J6 J7 J8 J8 J8 J8 J8 J8 J8 F1 F1 F1 F1 F1 F2 F3 F4 .5 F4 .5 F4 .5 F4 .5 CN4,5 CN13-14 CN13-14 CN13-14 CN19,20 E1 L1 L1 L2 L501 L502 T1 T1 T1 T1 T1 T1 T1 T1 T1 T | Ref. No ress Parts J4 J4 J4 J5 J6 J7 J8 J8 J8 J8 J8 J8 F1 F1 F1 F1 F2 F3 F4 ,5 F4 | Ref. No ress Parts Parts No. | Ref. No ress Parts Parts No. Dec Par | Ref. No ress Parts Parts No. Description | Ref. No ress Parts Parts No. Description | Ref. No ress Parts Parts No. Description | Ref. No ress Parts No. Description nation |

| L : Scandinavia | K:USA | P : Canada | R: Mexico | C: China | I : Malaysia |
|----------------------|-----------------|-------------|-----------|--------------------|--------------|
| V . DV/Fas Fast Hair | all\ T. Faalaad | F . F. mana | C - C | M. China/Chanahai) | - |

Y: PX(Far East, Hawaii) T: England E: Europe G: Germany V: China(Shanghai) Y: AAFES(Europe) X : Australia M: Other Areas ▲ indicates safety critical components. Q: Russia H: Korea

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.



| Ref. No | Add- ress | New Parts | Parts No. | Description | Desti- nation | Re- marks |
|---|--------------|--------------|--|---|--|--------------|
| R209 R575,576 R579 VR1 ,2 | | | RD14NB2E561J RD14NB2E221J RD14NB2E101J R32-0030-05 | RD 560 J 1/4W RD 220 J 1/4W RD 100 J 1/4W SEMI FIXED VARIABLE RESISTOR | KPX | |
| K1 K2 ,3 S1 S1 S2 ,3 | | | \$76-0089-05 \$76-0045-15 \$68-0107-05 \$68-0107-05 \$62-0001-05 | MAGNETIC RELAY MAGNETIC RELAY PUSH SWITCH PUSH SWITCH SLIDE SWITCH | E2E3 MXE1 M | |
| S501-506 S508 S510-515 | | | \$70-0031-05 \$70-0031-05 \$70-0031-05 | TACT SWITCH TACT SWITCH TACT SWITCH | | |
| S516 S517,518 | | * | T99-0602-05 T99-0630-05 | ROTARY ENCODER ROTARY ENCODER | | |
| D1 D1 D2 D2 D3 | | | HZS5.1N(B2) MTZJ5.1(B) HZS4.7N(B2) MTZJ4.7(B) HSS104A | ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE | | |
| D3 D4 D4 D5 ,6 D5 ,6 | | | 1SS133 HZS8.2N(B2) MTZJ8.2(B) HSS104A 1SS133 | DIODE ZENER DIODE ZENER DIODE DIODE DIODE | | |
| D7 ,8 D9 -12 D9 -12 D13 D13 | | | 1SS244 HSS104A 1SS133 HZS6.2N(B2) MTZJ6.2(B) | DIODE DIODE DIODE ZENER DIODE ZENER DIODE | | |
| D14 D14 D15 -17 D15 -17 D18 | | | HZS2.7N(B2) MTZJ2.7(B) HSS104A 1SS133 HZS5.6N(B2) | ZENER DIODE ZENER DIODE DIODE DIODE JENER DIODE | | |
| D18 D19 D20 ,21 D20 ,21 D22 | | | MTZJ5.6(B) S1ZB20(4101) HZS16N(B2) MTZJ16(B) D4SBL20UF03 | ZENER DIODE DIODE ZENER DIODE ZENER DIODE DIODE | | |
| D23 D23 D24 -27 D24 -27 D28 | | | HZS5.6N(B2) MTZJ5.6(B) S5688B 1SR139-400 HZS8.2N(B2) | ZENER DIODE ZENER DIODE DIODE DIODE JENER DIODE | | |
| D28 D31 ,32 D31 ,32 D33 ,34 D33 ,34 | | | MTZJ8.2(B) HSS104A 1SS133 HZS13N(B2) HZS15N(B2) | ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE | KPMX E1E2E3 | |
| D33 ,34 D33 ,34 D35 ,36 D35 ,36 D35 ,36 | | | MTZJ13(B) MTZJ15(B) HZS18N(B2) HZS20N(B2) MTZJ18(B) | ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE | KPMX E1E2E3 KPMX E1E2E3 KPMX | |

K: USA T: England X : Australia Q : Russia

P: Canada E: Europe

R: Mexico G: Germany

H: Korea

C: China I: Malaysia

V: China(Shanghai)

AR-404/KRF-A4030/A4030E/A4030-S PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.



| | Add- | New | erden nicht geliefert. | | Desti- | Re- |
|---|------|-------|--|--|------------------------------------|-------|
| Ref. No | ress | Parts | Parts No. | Description | nation | marks |
| D35 ,36 D37 ,38 D37 ,38 D39 ,40 D39 ,40 | | | MTZJ20(B) HSS104A 1SS133 HZS15N(B2) MTZJ15(B) | ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE | E1E2E3 KPMX KPMX | |
| D41 ,42 D41 ,42 D503 D503 D504 | | | HSS104A 1SS133 HSS104A 1SS133 HSS104A | DIODE DIODE DIODE DIODE DIODE | M M X | |
| D504 D505 D505 D508,509 D508,509 | | | 1SS133 HSS104A 1SS133 HSS104A 1SS133 | DIODE DIODE DIODE DIODE DIODE | X E1E2E3 E1E2E3 | |
| D510 D510 D510 D510 D511-524 | | | HSS104A HSS104A 1SS133 1SS133 HSS104A | DIODE DIODE DIODE DIODE DIODE | E1E2E3 MX E1E2E3 MX KP | |
| D511-524 D525 D525 D526 D526 | | | 1SS133 HSS104A 1SS133 HZS5.1N(B2) MTZJ5.1(B) | DIODE DIODE DIODE ZENER DIODE ZENER DIODE | KP E1E2E3 E1E2E3 | |
| D528-530 D528-530 ED51 IC1 IC2 | | | HSS104A 1SS133 10-BT-216GK NJM4580L-D M62492FP | DIODE DIODE FLUORESCENT INDICATOR TUBE ANALOGUE IC MOS-IC | | |
| IC3 IC4 IC51 IC51 IC51 | | | TC9164AN NJM4565L-D CXP82832-162Q CXP82832-162Q CXP82840-163Q | MOS-IC ANALOGUE IC MI-COM IC MI-COM IC | KPM X E1E2E3 | |
| IC52 IC53 IC54 Q1 ,2 Q1 ,2 | | | BR24C02 S-806D-Z SAA6579/R DTC124ESA DTC124ESA | IC(E2PROM) ANALOGUE IC ANALOGUE IC DIGITAL TRANSISTOR DIGITAL TRANSISTOR | E1E2E3 E1E2E3 KPM X | |
| Q1 ,2 Q1 ,2 Q3 -6 Q3 -6 Q7 -10 | | | UN4212 UN4212 2SC1740S(Q,R) 2SC3311A(Q,R) 2SA992(F,E) | DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | KPM X | |
| Q11 -14 Q11 -14 Q11 -14 Q15 ,16 Q15 ,16 | | | 2SC1845(F,E) 2SC2631(R,S) 2SC2631(R,S) 2SA1123(R,S) 2SA1123(R,S) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | E1E2E3 KPM X KPM X | |
| Q15 ,16 Q19 ,20 Q21 ,22 Q25 ,26 Q27 ,28 | | * | 2SA992(F,E) TRAIT3N TRAIT3P 2SA992(F,E) 2SC2631(R,S) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | E1E2E3 | |

L: Scandinavia Y: PX(Far East, Hawaii) Y: AAFES(Europe)

K: USA T: England X : Australia

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I: Malaysia

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.



| | Telle Offile Parts NO. Werderfriicht geliefert. | | | | | | |
|----------|---|--------------|--------------|---|--|------------------|--------------|
| | Ref. No | Add- ress | New Parts | Parts No. | Description | Desti- nation | Re- marks |
| ⚠ | Q29 ,30 Q29 ,30 Q31 Q32 ,33 Q34 ,35 | | | 2SC1740S(Q,R) 2SC3311A(Q,R) 2SA992(F,E) 2SC1845(F,E) 2SC1740S(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| <u>^</u> | Q37 Q37 | | | 2SC3311A(Q,R) 2SB1640 2SC1740S(Q,R) 2SC3311A(Q,R) 2SC3940A | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| <u>^</u> | Q40 ,41 Q40 ,41 | | | 2SD2525 2SC1740S(Q,R) 2SC3311A(Q,R) 2SB1640 2SA1309A(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Δ | Q46 ,47 | | | 2SA933AS(Q,R) 2SC1740S(Q,R) 2SC3311A(Q,R) 2SA1309A(Q,R) 2SA933AS(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| | Q501 Q501 Q502 Q502 Q503 | | | 2SC1740S(Q,R) 2SC3311A(Q,R) 2SA1309A(Q,R) 2SA933AS(Q,R) 2SC1740S(Q,R) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | M M | |
| | Q503 | | | 2SC3311A(Q,R) | TRANSISTOR | | |
| | A501 | | | W02-2625-05 | OPTIC RECEIVING MODULE | | |

L: Scandinavia Y: PX(Far East, Hawaii) T: England Y: AAFES(Europe)

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C: China I: Malaysia V: China(Shanghai)

M: Other Areas ⚠ indicates safety critical components.

HOW TO READ THE PARTS LIST ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

| MODEL | CNT | Australia | Canada | China | England | Europe | Germany | Korea | Malaysia |
|-------------|------|-----------|----------|--------|-------------|----------|---------|------------|----------|
| | ABB. | X | P | С | T | Ε | G | Н | I |
| AR-404 | - | - | P | - | - | - | - | - | - |
| KRF-A4030 | - | - | - | - | - | E1 | - | - | - |
| KRF-A4030E | - | - | - | - | - | E2 | - | - | - |
| KRF-A4030-S | - | X | - | - | - | E3 | - | - | - |
| MODEL | CNT | Mexico | PX/AAFES | Russia | Scandinavia | Shanghai | USA | Other area | |
| MODEL | ABB. | R | Y | Q | L | V | K | М | |
| AR-404 | - | - | - | - | - | - | K | - | - |
| KRF-A4030 | - | - | - | - | - | - | - | - | - |
| KRF-A4030E | - | - | - | - | - | - | - | - | - |
| KRF-A4030-S | - | - | - | - | - | - | - | М | - |

SPECIFICATIONS

For U.S.A. and Canada

[AUDIO section]

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at $8\,\Omega$ from 40 Hz to 20 kHz with no more than 0.5 % total harmonic distortion. (FTC)

| 0.5 % total harmonic distortion. (FTC) |
|---|
| Total harmonic distortion 0.02 % (1 kHz, 50 W, 8 Ω) Signal to noise ratio (IHF'66) PHONO (MM) |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| TAPE REC |
| TREBLE±9 dB (at 10 kHz) |
| [FM tuner section] Tuning frequency range |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| Selectivity (±400 kHz) |
| [AM tuner section] Tuning frequency range |
| Signal to noise ratio (30% mod. 1 mV input) 50 dB |
| [GENEAL] Power consumption |
| Weight (Net) 8.0 kg (17.6 lb) |

For other countries

[AUDIO section]

| Effective power output during 1kHz,10% T.H.D.,at 8 Ω | ng STEREO operation 140 W + 140 W |
|---|--|
| 100 watts per channel mir driven, at $8~\Omega$ from 40 Hz 0.5 % total harmonic disto | nimum RMS, both channels to 20 kHz with no more than rtion.(FTC) |
| Total harmonic distortion | 0.02 % (1 kHz 50W 8.0) |

| lotal harmonic distortion | 0.02% (1 kHz, 50W, 8 Ω) |
|--------------------------------|------------------------------------|
| Signal to noise ratio (IHF'66) | |
| PHONO (MM) | 75 dB |
| CD | 92 dB |
| Input sensitivity / impedance | |
| PHONO (MM) | 2.5 mV / 27 kΩ |
| CD | 200 mV / 47 kΩ |
| Output level / impedance | |
| TAPE REC | 200 mV / 2.2 kΩ |
| PRE OUT (SUBWOOFER) | |
| Tone control | |
| BASS | +9 dB (at 100 Hz) |
| TREBLE | ±9 dB (at 10 kHz) |
| | |
| [FM tuner section] | |
| Tuning frequency range | 87 5 MHz ~ 108 0 MHz |

| runing frequency range |
|---|
| Usable sensitivity (MONO 1.6 μ V (75 Ω)/ 15.2 dBf |
| (75 kHz DEV., SINAD 30 dB) |
| 50dB quieting sensitivity |
| STEREO 31.6 μV (75 Ω)/ 41.2 dBf |
| Total harmonic distortion (1 kHz) |
| MONO |
| |

| STEREO | 0.7 % (65 dBf input) |
|---------------------------------|----------------------------|
| Signal to noise ratio (1 kHz, 7 | 5 kHz DEV.) |
| MONO | |
| STEREO | 68 dB (65 dBf input) |
| Stereo separation (1 kHz) | 38 dB |
| Selectivity (±400 kHz) | 65 dB |
| Frequency response (30 Hz | ~15kHz), +0.5 dB ~ -3.0 dB |
| | |

[AM tuner section] Tuning frequency range

Signal to noise ratio (30% mod. 1 mV input)50 dB

[GENEAL]

| Power consumption | 280 W |
|-----------------------------|----------------------|
| AC outlet | |
| SWITCHED (for Australia) | 1 (total 150 W max.) |
| SWITCHED (except Australia) | 2 (total 150 W max.) |
| Dimensions | W:440 mm (17-5/16") |
| | H·144 mm (5-11/16") |

Notes:

- 1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
- 2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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